

**Lunar Regolith Simulant Materials Workshop, January 24-26, 2005, Marshall Space Flight Center, AL**  
**WORKSHOP AT A GLANCE**

<b>Monday January 24</b>			
<b>Time</b>	<b>Length</b>	<b>Speaker</b>	<b>Subject</b>
7:30 AM	1:00		Registration
8:30 AM	:15	Raymond Clinton	Welcoming remarks from Chief, Exploration Science and Technology Division, MSFC
8:45 AM	:15	Tom Morgan and Mike Wargo	Perspectives from NASA Headquarters (by telecon) Chief Lunar Scientist Science Directorate, Chief Lunar Scientist Exploration Systems
9:00 AM	:15	Audience	Telecon Questions
9:15 AM	:30	Laurent Sibille	The Status of Lunar Simulant Materials, Workshop Overview and Objectives
9:45 AM	:30	Break	
10:15 AM	:30	Larry Taylor	Physical and Chemical Characteristics of Lunar Regolith: Considerations for Simulants
10:45 AM	:30	David McKay	Evolution of the Lunar Regolith
11:15 AM	:30	Larry Taylor	The Geotechnical Properties of the Lunar Regolith: From Equator to the Poles
11:45 AM	:30	Audience	Discussion
12:00 PM	1:00	Lunch	
1:00 PM	:30	James Carter	New Lunar Root Simulants: JSC-2 (JSC-1 Clone) and JSC-3
1:30 PM	:30	Susan Batiste	Lunar Regolith Simulant MLS-1: Production and Engineering Properties
2:00 PM	:30	Paul Carpenter	Characterization Strategies and Requirements for Lunar Regolith Simulant Materials
2:30 PM	:30	Break	
3:00 PM	:30	Greg Meeker	Characterization of Chemical and Physical Properties of Proposed Simulant Materials
		Steve Wilson	Development of Geochemical Reference Materials at the United States Geological Survey
3:30 PM	:30	Masami Nakagawa	The Moon as a Beach of Fine Powders
4:00 PM	:30	Ron Creel	The Effects of Lunar Dust on Advanced EVA Systems: Lessons From Apollo
4:30 PM	:30	Russ Kerschmann	Biological Effects of Lunar Surface Mineral Particulates
5:00 PM		End of session	
5:15 PM		EMS Dry Run for Science Committee	
<b>Tuesday January 25</b>			
<b>Time</b>	<b>Length</b>	<b>Speaker</b>	<b>Subject</b>
8:00 AM	:30	Gary Lofgren	Sintering, Melting, and Crystallization of Lunar Soil With An Experimental Petrologic Point of View
8:30 AM	:30	Donald Sadoway	Chemical Properties of Lunar Simulant For Extractive Processes
9:00 AM	:20	Ernest Berney	The In-Situ State: The Elusive Ingredient in Lunar Simulant
9:20 AM	:20	David Cole	Lunar Regolith Simulant Requirements: Mechanical Properties Considerations
9:40 AM	:20	Break	
10:00 AM	:20	Paul Lowman	Composition of the Lunar Highland Crust: A New Model
10:20 AM	:20	Jim Adams	Space Radiation and Lunar Regolith
10:50 AM	:25	Larry Taylor	Group Discussion, Larry Taylor Moderator, Simulant Requirements
11:15 AM	:45	Working Groups	Sub-session 1A Group: Sub-session 1B Group: Sub-session 1C Group
12:00 PM	1:00	Lunch	

Tuesday, January 25 (cont'd)		
Time	Length	Activity
1:00 PM	1:30	Session 1
1:30 PM		
2:00 PM		
2:30 PM		
3:00 PM	:30	Break
3:30 PM	:30	Gate 1 Summary
4:00 PM	1:00	Session 2
4:30 PM		
5:00 PM		Adjourn
6:30 PM		Informal dinner at Holiday Inn – Speaker, Owen Garriott, Former Skylab II and Spacelab 1 Astronaut

Wednesday January 26		
Time	Length	Activity
8:00 AM	2:00	Session 2
8:30 AM		
9:00 AM		
9:30 AM		
10:00 AM	:30	Break
10:30 AM	:30	Gate 2 Summary
11:00 AM	1:00	Session 3
11:30 AM		
12:00 PM	1:00	Lunch
1:00 PM	1:30	Session 3
1:30 PM		
2:00 PM		
2:30 PM	:30	Break
3:00 PM	:30	Gate 3 Summary
3:30 PM	1:30	Executive Summary
4:00 PM		
4:30 PM		
5:00 PM		Workshop Adjourn